

Figure 1

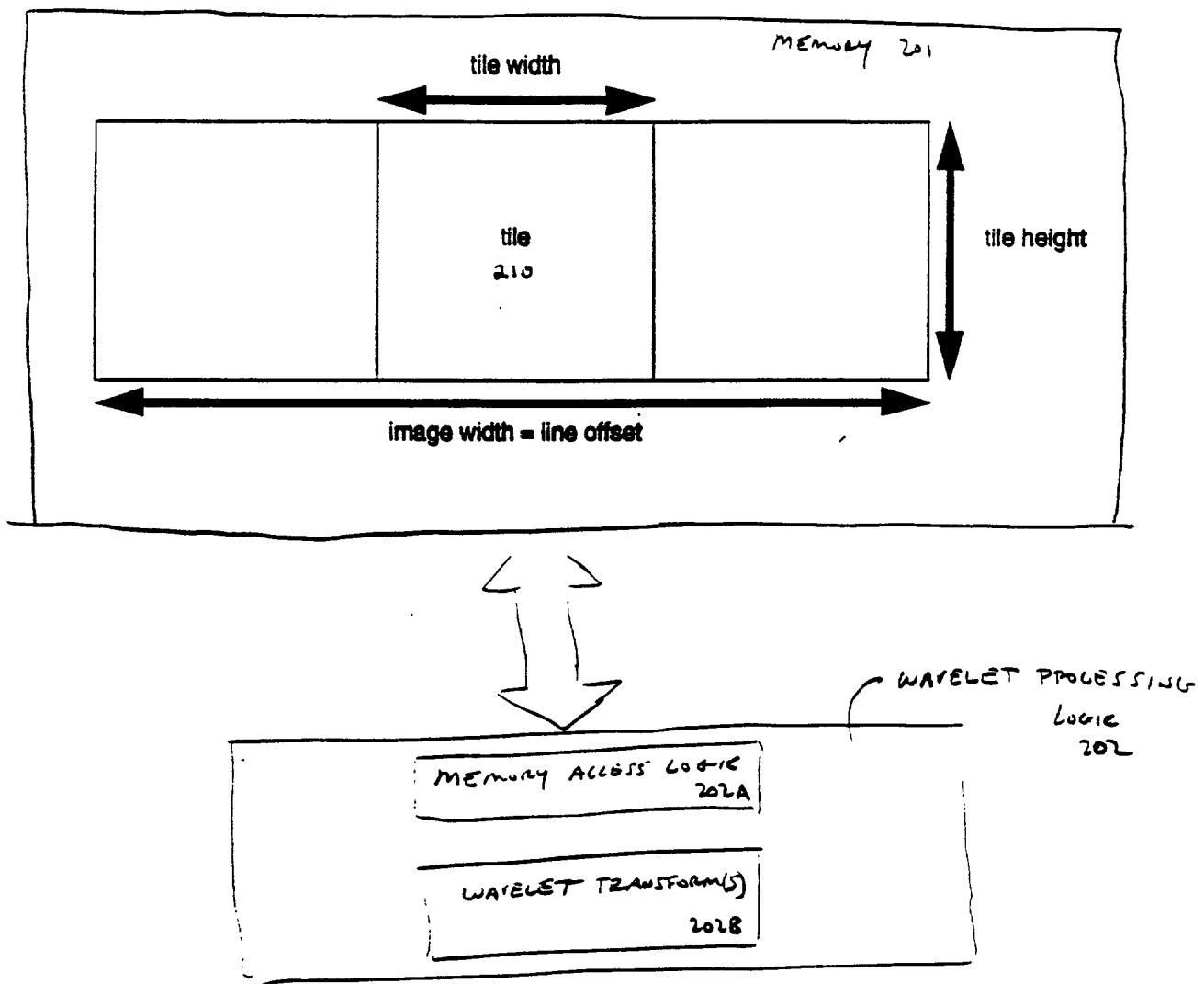
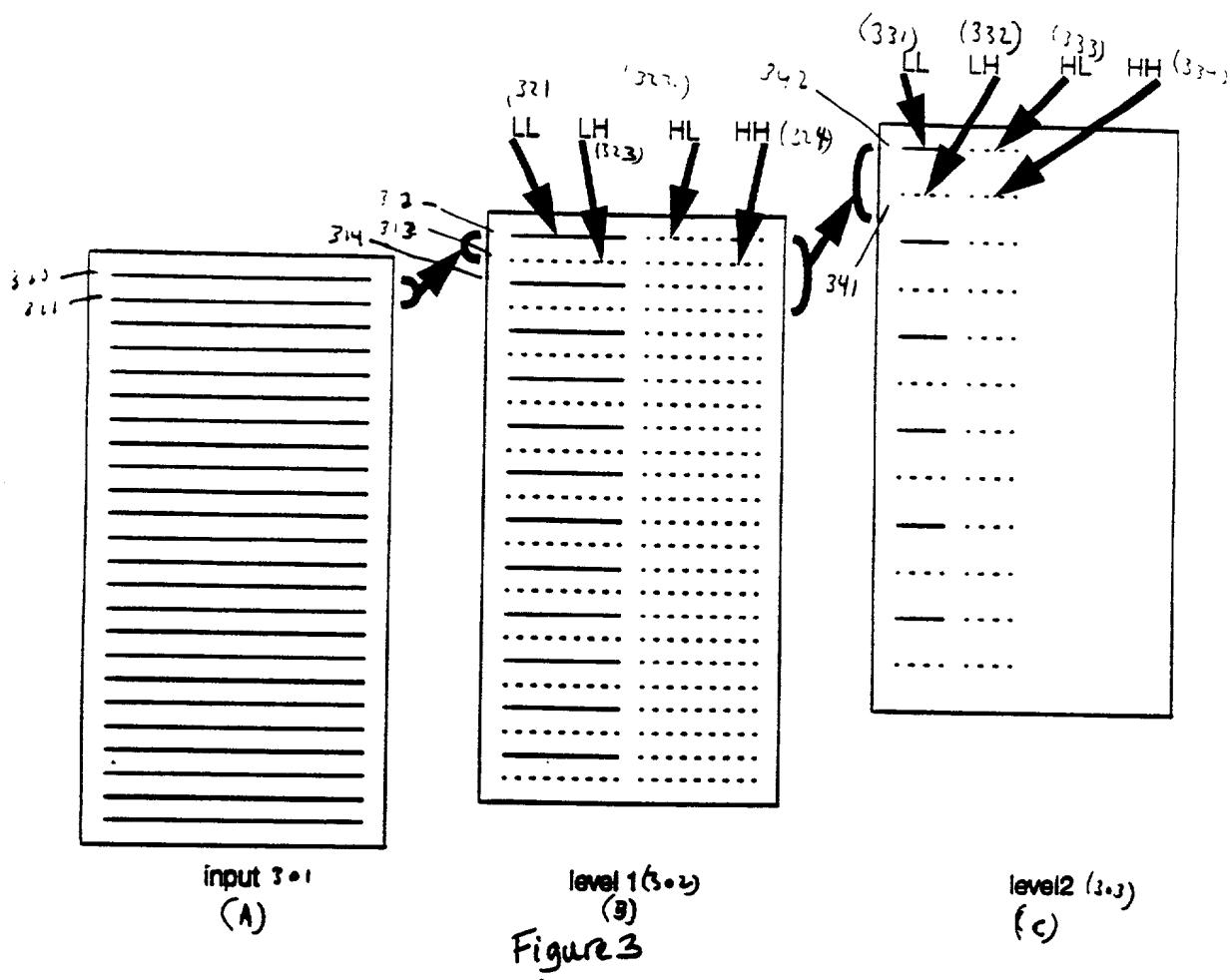


Figure2



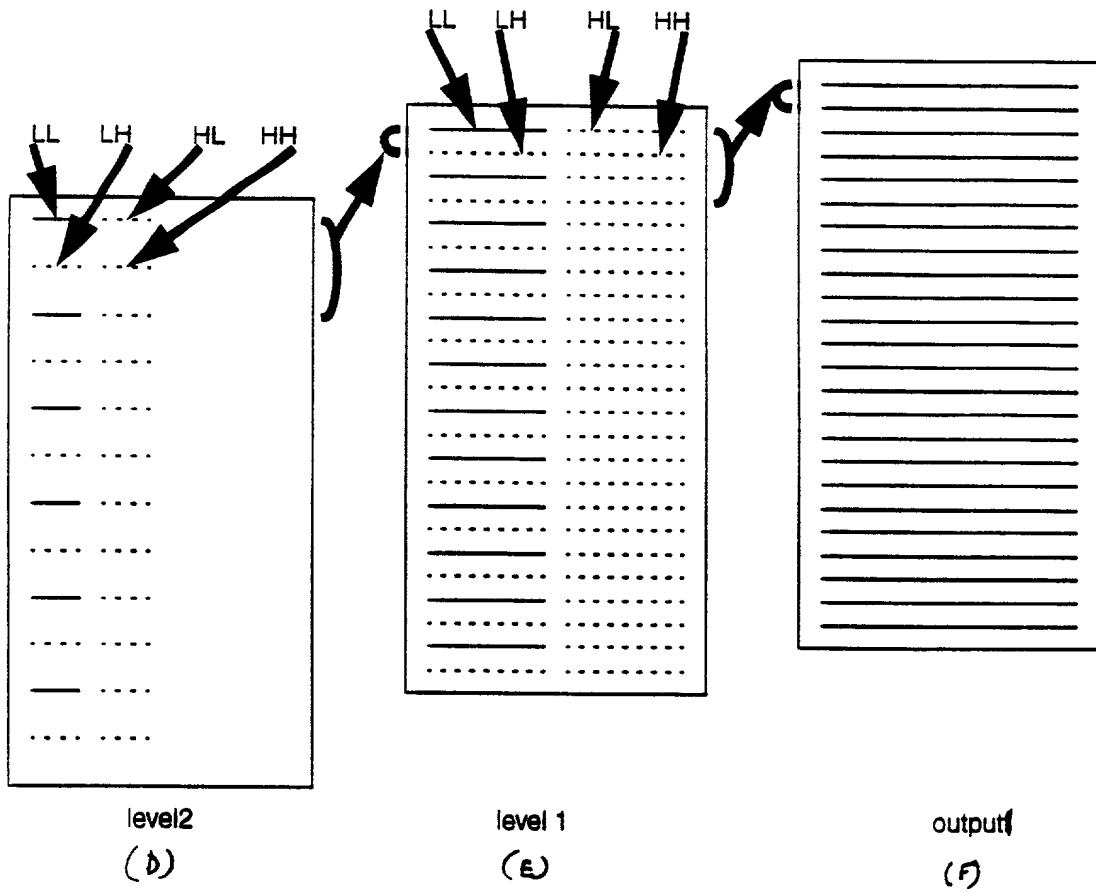


Figure 3.

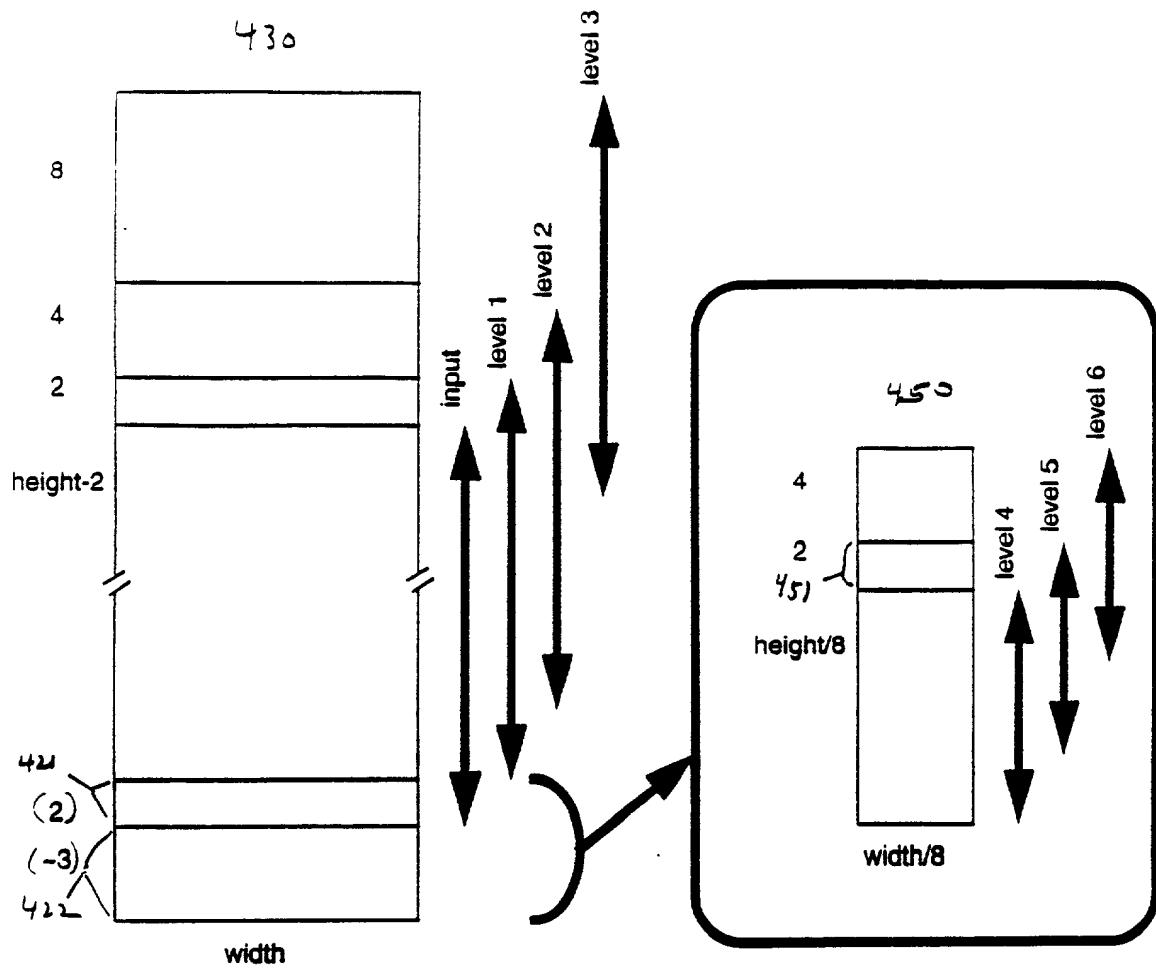


Figure 4 A

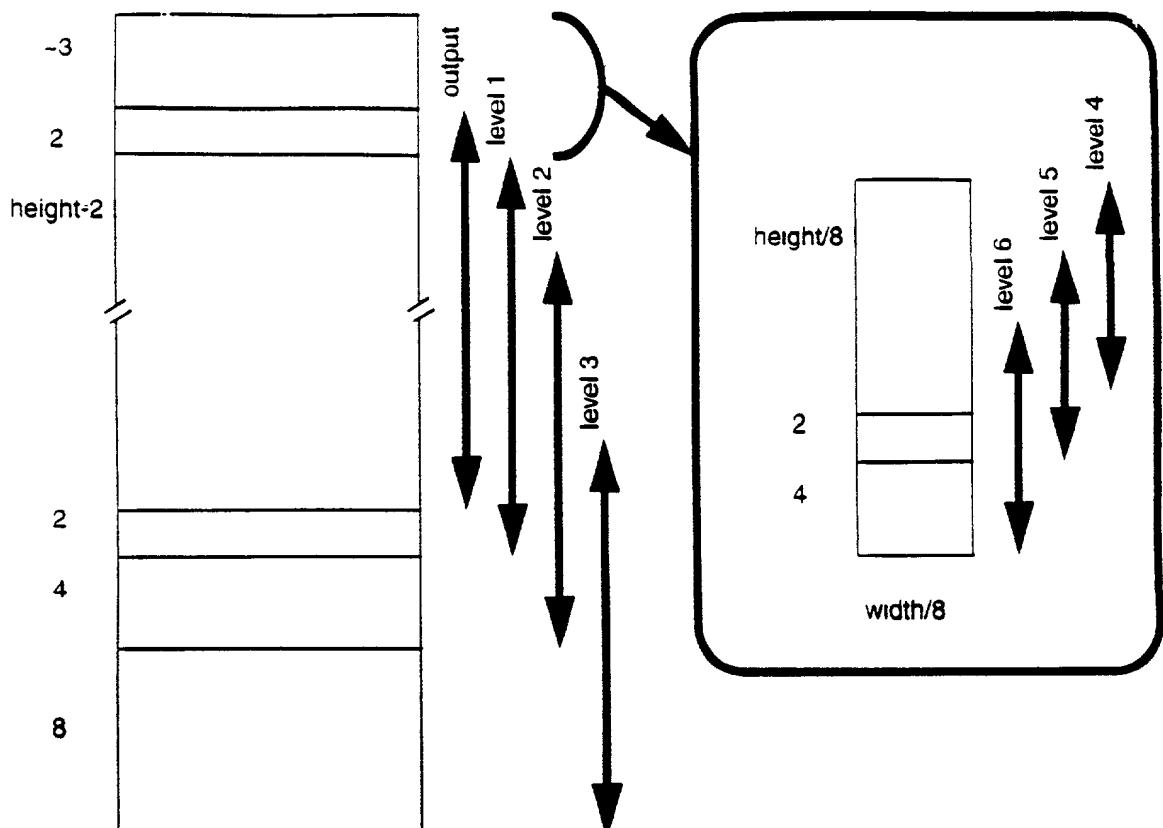


Figure 4B

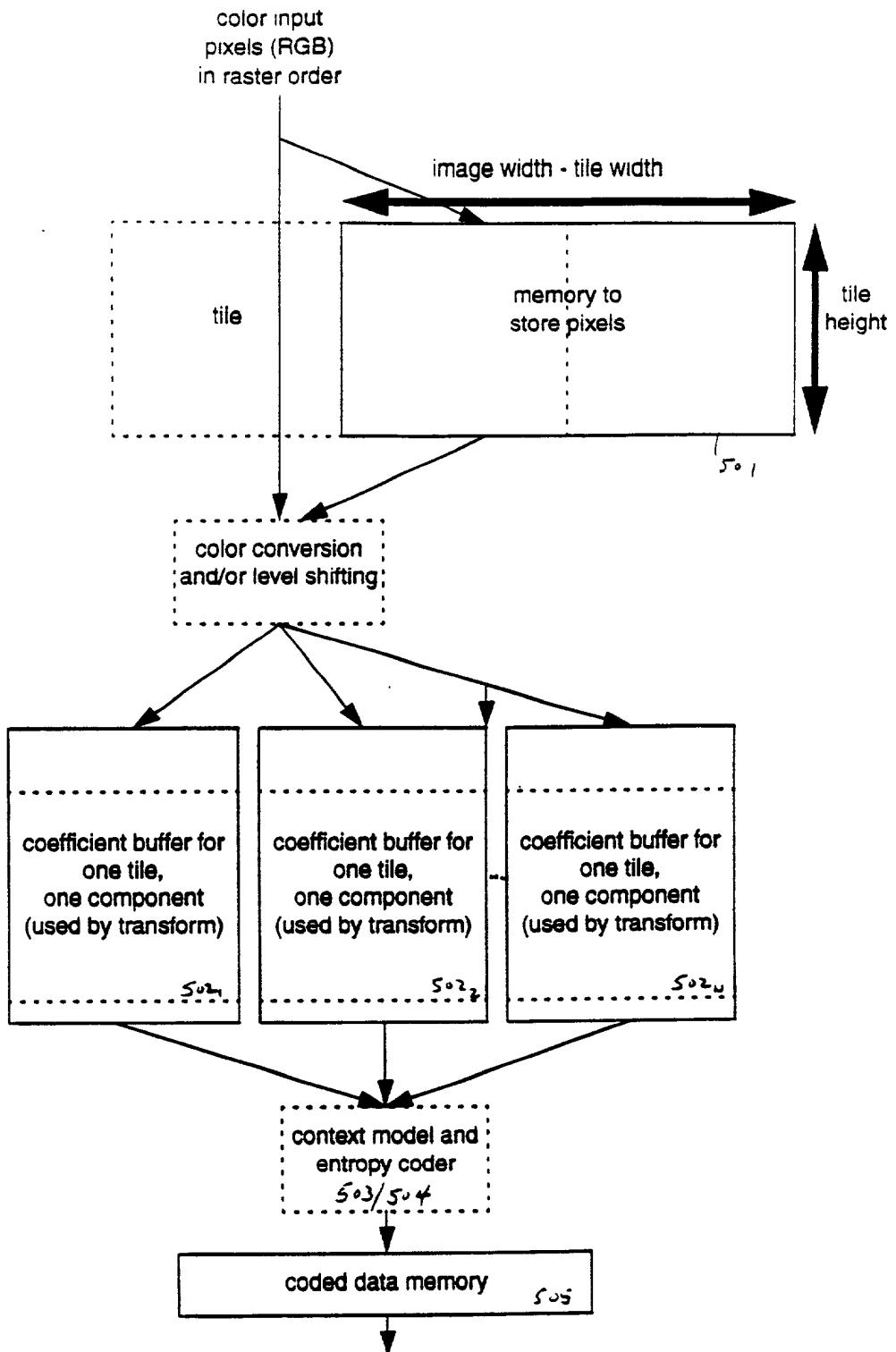


Figure 5

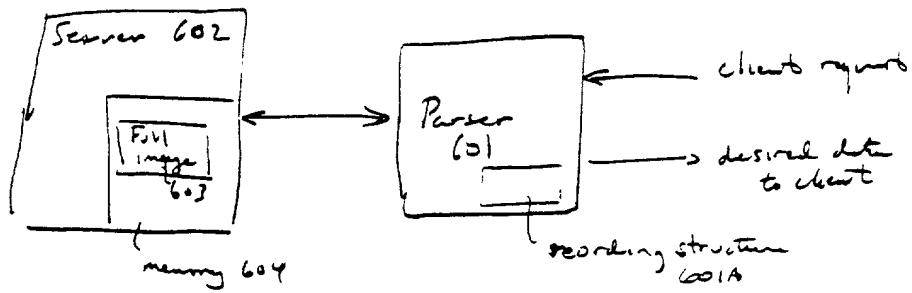


Figure 6A

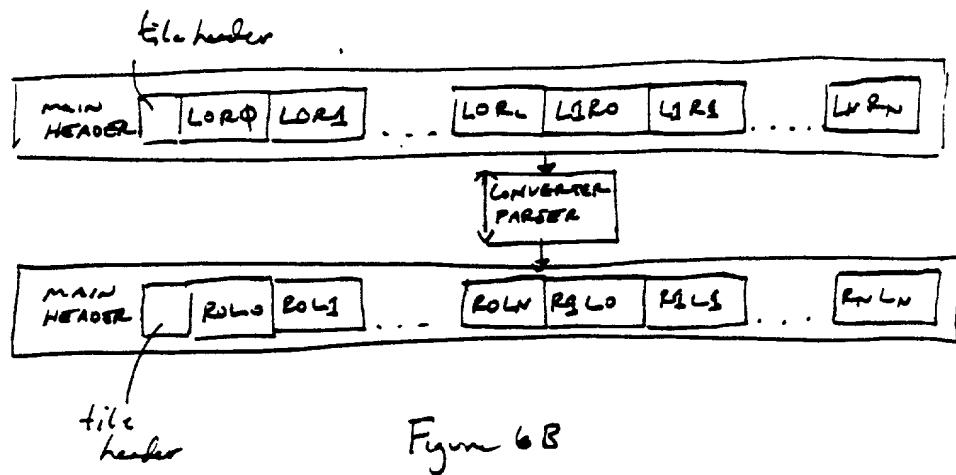


Figure 6B

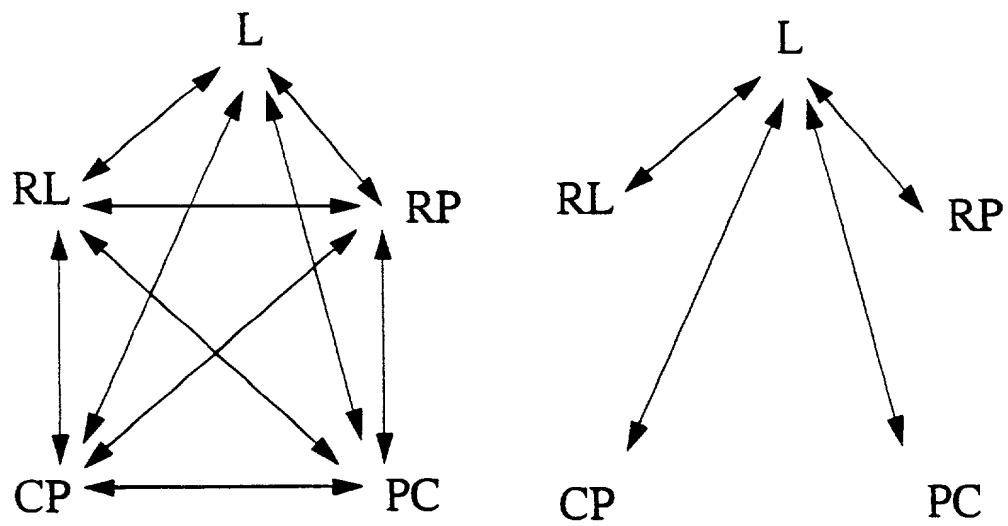


Figure 7A

Figure 7B

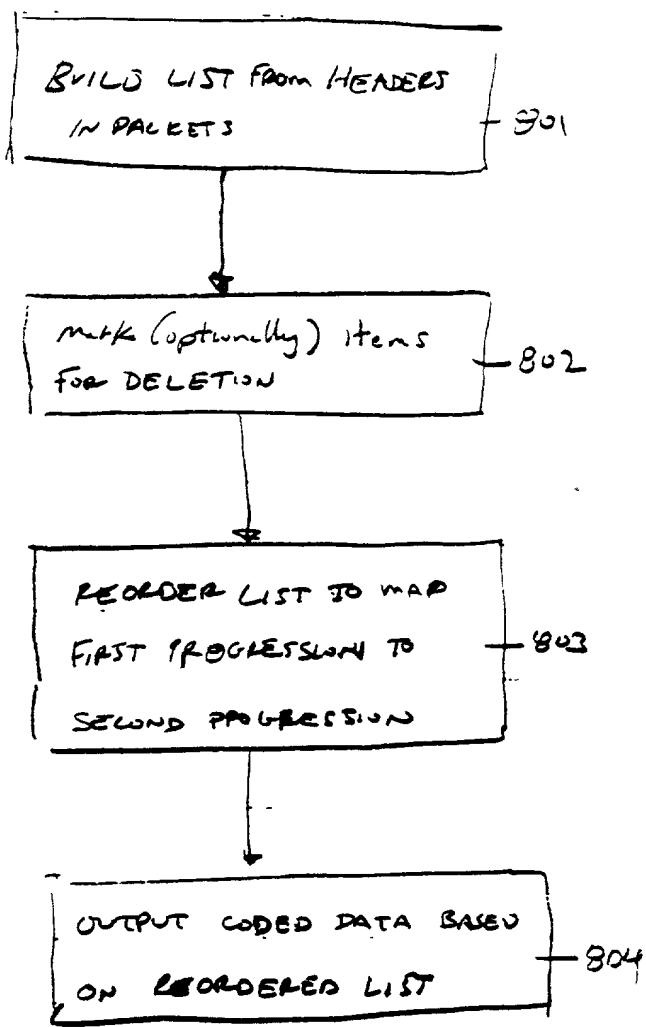


Figure 8

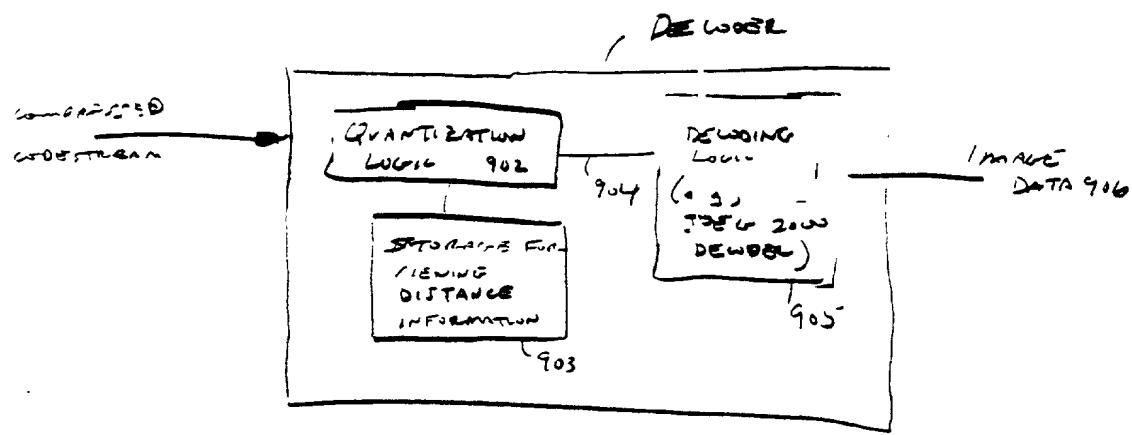


Figure 9

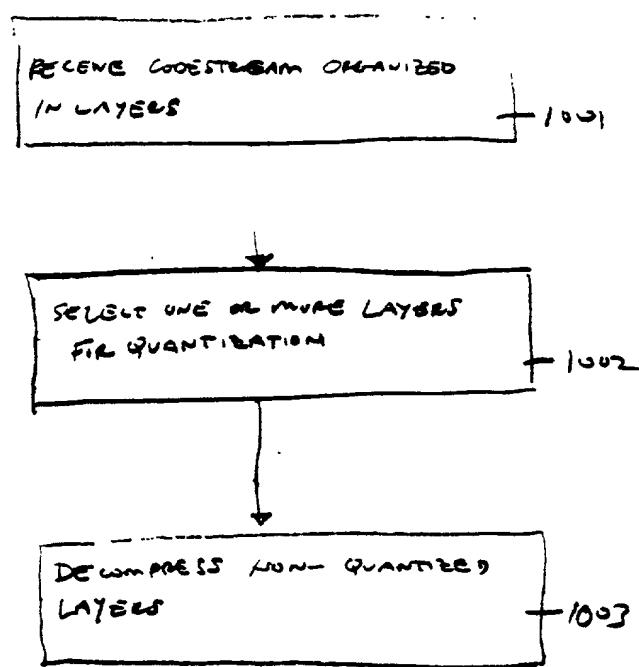


Figure 10

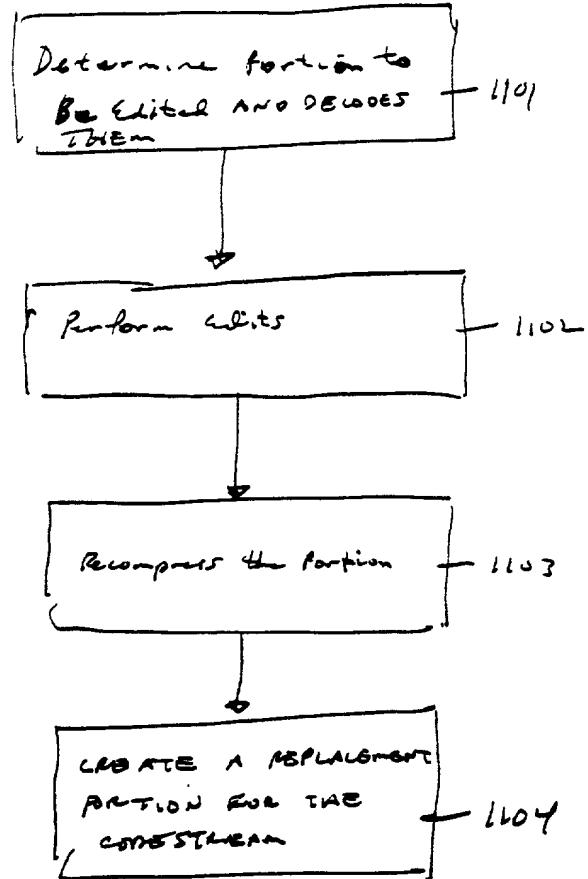


Figure 11

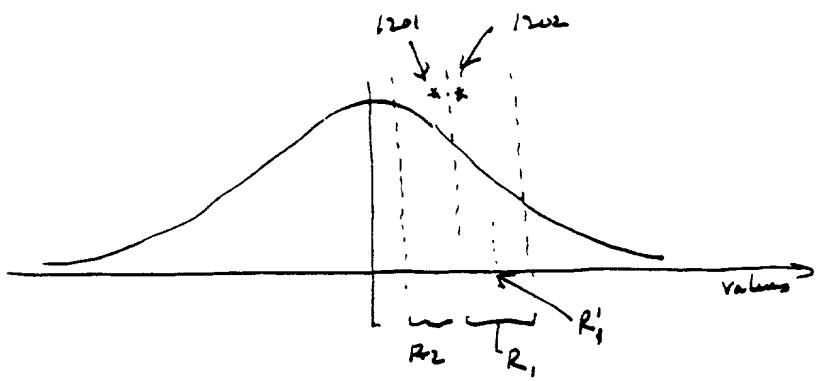


Figure 12

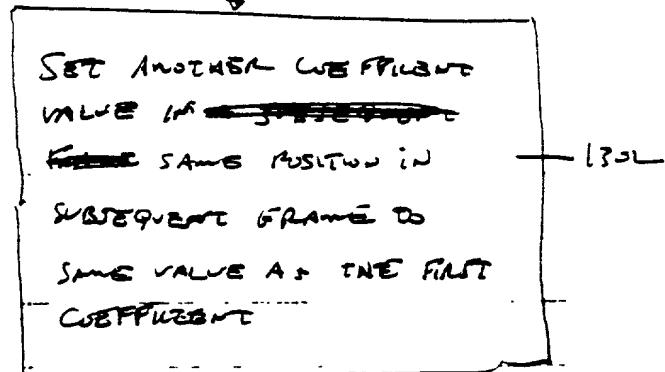
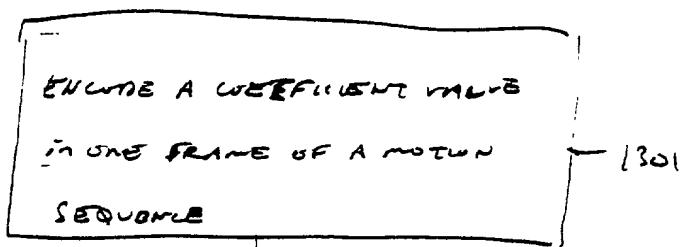


Figure 13

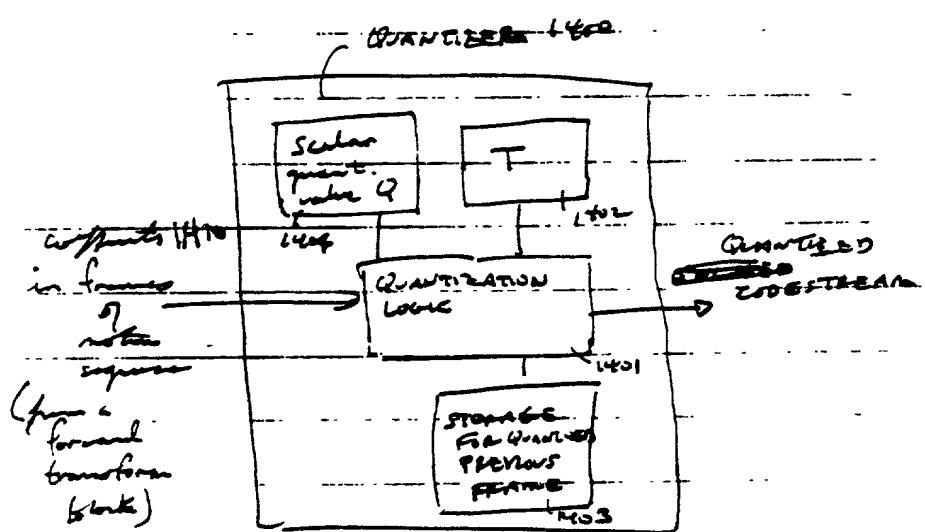


Figure 14

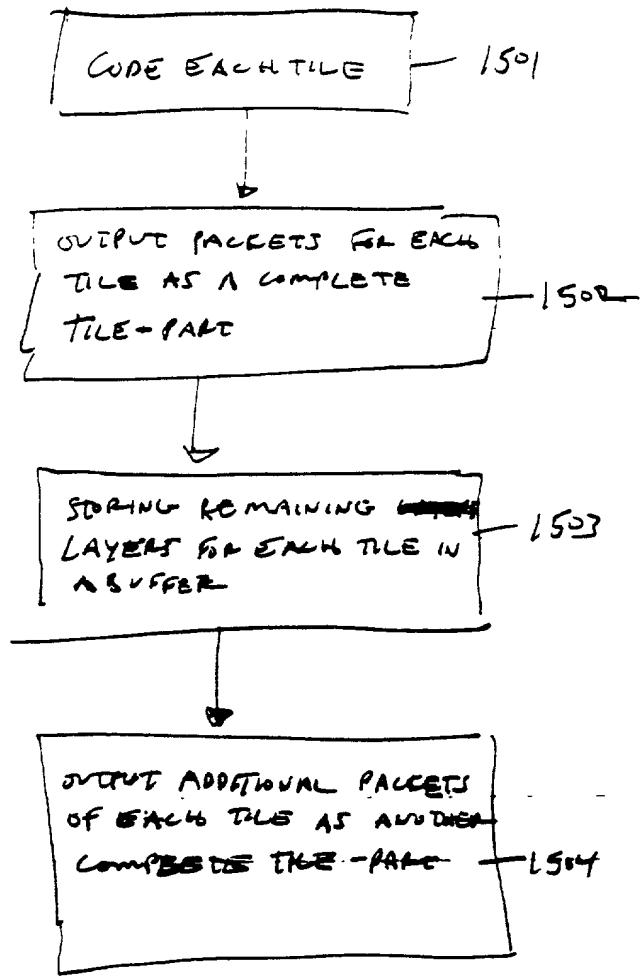
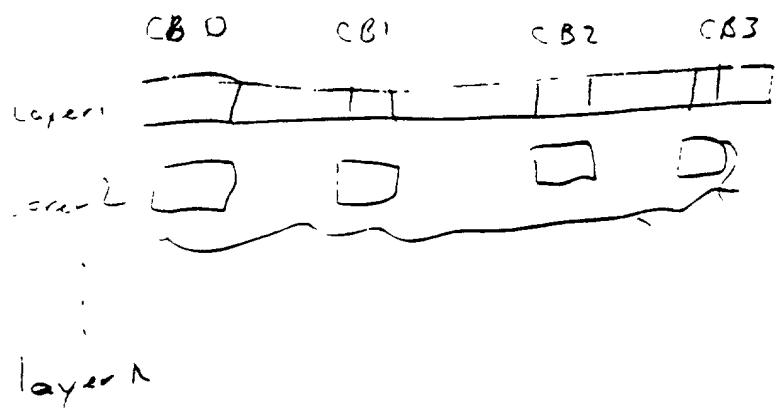


Figure 15 A



by LS B

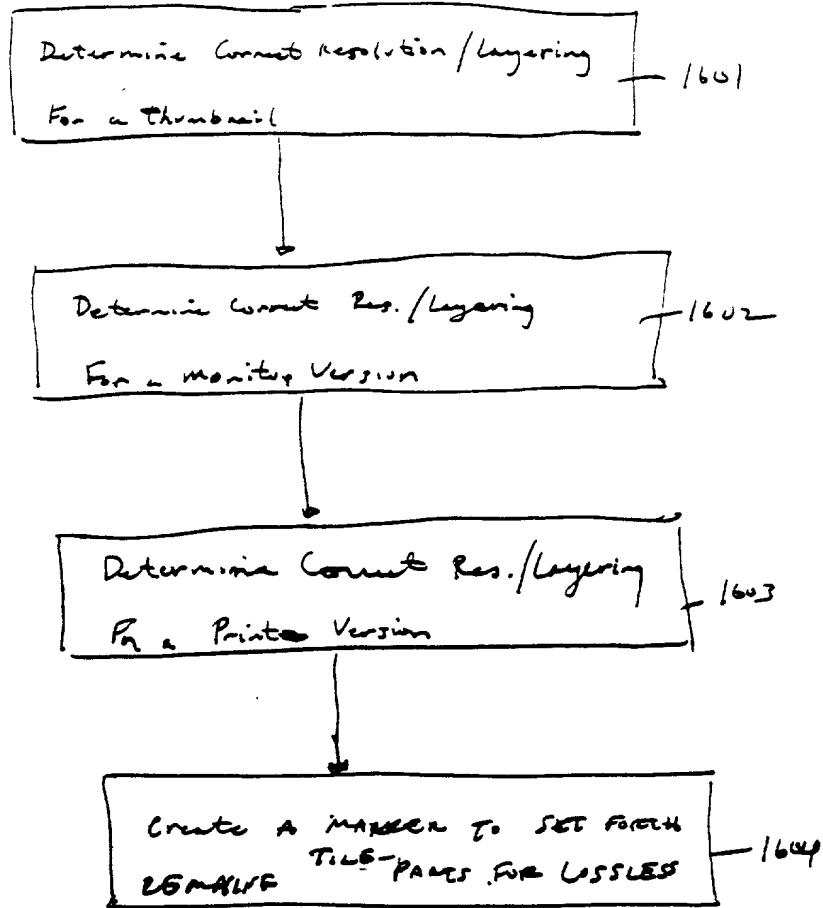


Figure 16

0	0		0
0	0		0
0	0		0
0			0
			0

A = lossless

0	0		0
0	0		0
0	0		0
0			1
			1

B

0	0		0
0	0		0
0	0		0
0			1
			1

C

0	0		0
0	0		0
0	0		0
0	1		1
			1

D

0	0		1
0	0		1
1	1		1
1	1		1
			1

E

0	0		1
0	0		1
1	1		1
1	1		2
			2

F

0	0		1
0	1		1
1	1		1
1	1		2
			2

G

0	0		1
0	1		1
1	1		1
2	2		2
			2

H

0	1		1
1	1		1
1	1		1
2	2		2
			2

I

Figure 17

0	1		1	
1	1		1	
			2	
1		2		
			2	

J

1	1		1	
1	1		1	
			2	
1		2		
			2	

K

1	1		2	
1	1		2	
			2	
2		2		
			2	

L

1	1		2	
1	1		2	
			2	
2		2		
			2	

M

1	1		2	
1	2		2	
			2	
2		2		
			2	

N

1	1		2	
1	2		2	
			2	
2		2		
			2	

O

1	2		2	
2	2		2	
			2	
2		2		
			2	

P

1	2		2	
2	2		2	
			2	
2		2		
			2	

Q

2	2		2	
2	2		2	
			2	
2		3		
			2	

R

Figure 18

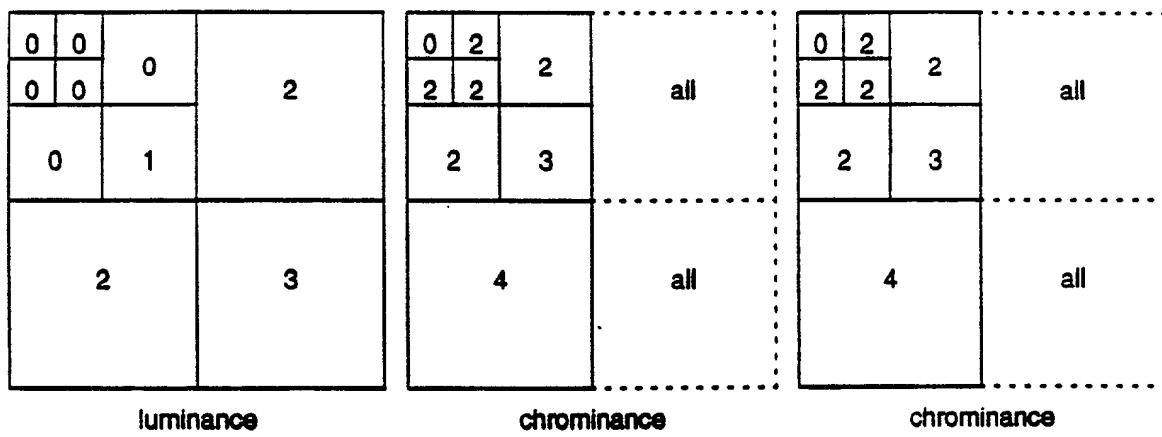


Figure 11

2000

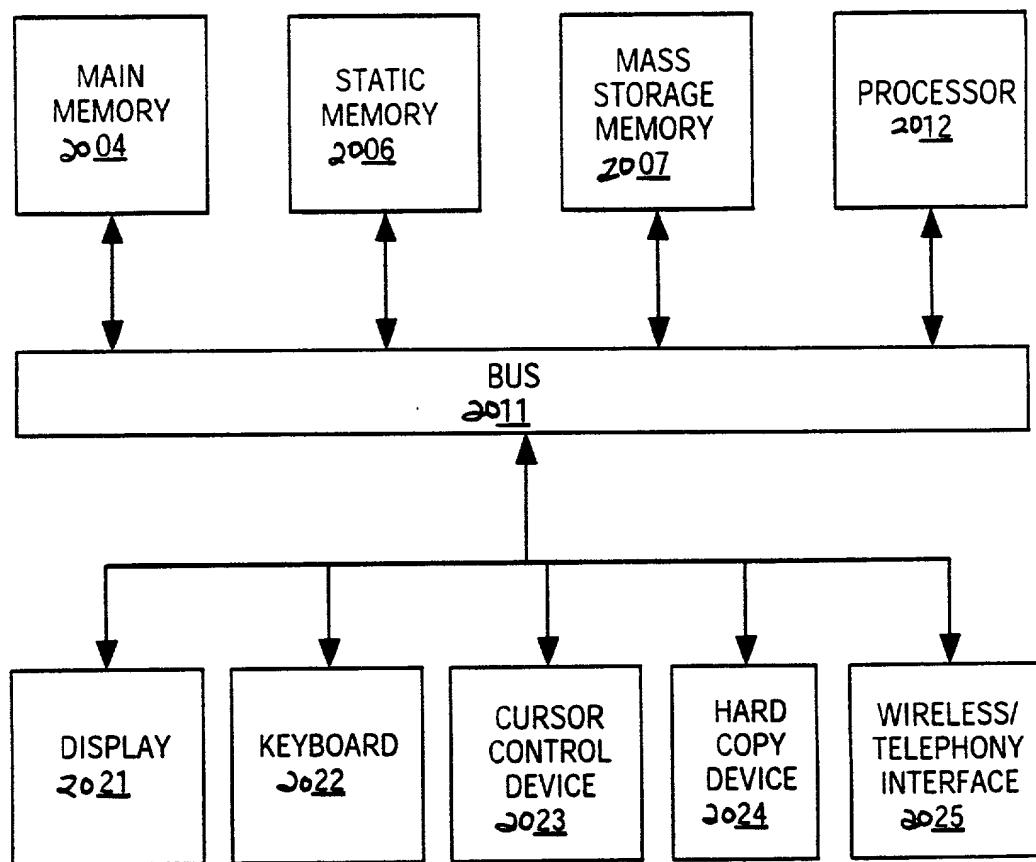


FIG. 20

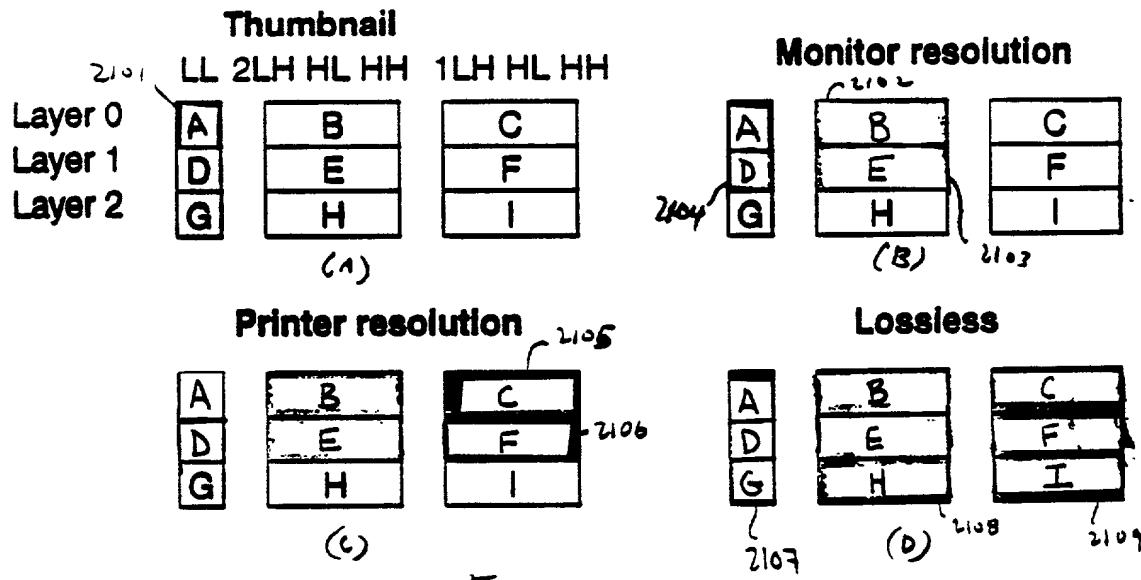


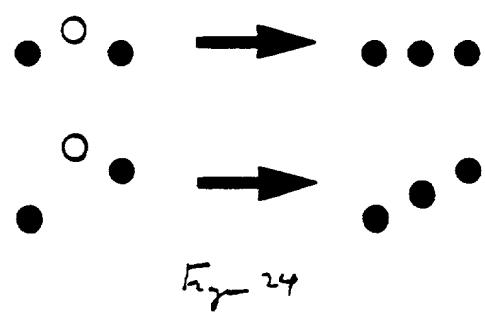
Figure 21

0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	2	2	0	7	7	10	11	11	15
5	9	9	13	14	14	17	18	18	22
12	16	16	20	21	21	24	25	25	29
19	23	23	27	28	28	31	32	32	36
26	30	30	34	35	35	38	39	39	42
33	37	37	40	41	41	43	44	44	45
3LL	3HL	3LH	3HH	2HL	2LH	2HH	1HL	1LH	1HH

Figure 22

0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
3LL	5HL,LH	5HH	4HL,LH	4HH	3HL,LH	3HH	2HL,LH	2HH	1HL,LH	1HH

Figure 23



TY PICAL PROCESS OF COLOR IMAGES

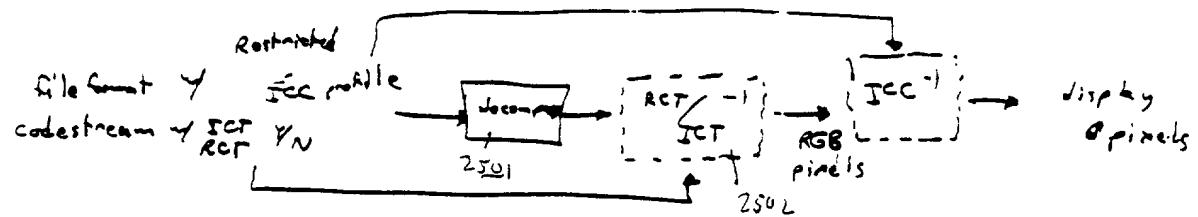
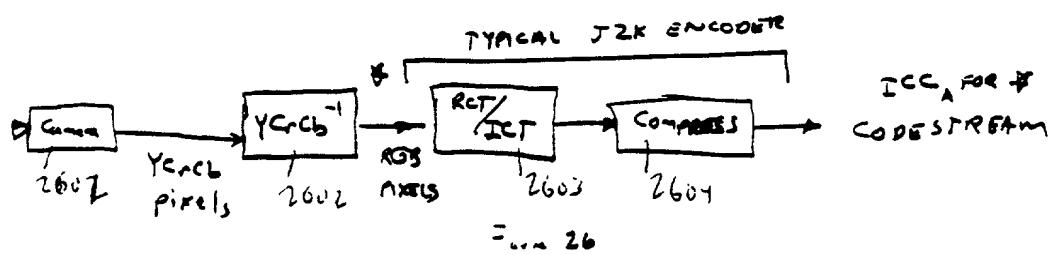
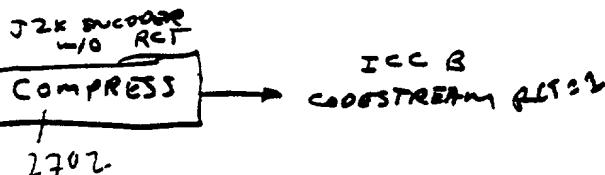


Figure 25

DUMB CAMERA ENCODER



TYPICAL J2K ENCODER



SIMPLE CAMERA ENCODER

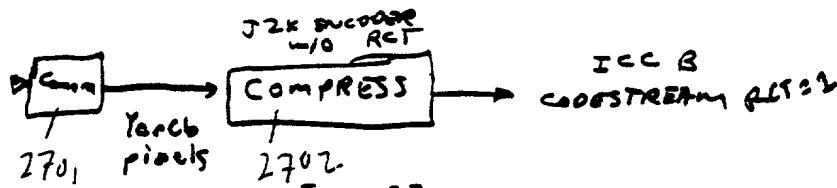


Figure 27

Figure 28 shows a flowchart of a signal processing pipeline. The process starts with 'Coefficients' at the top, which feed into a '1 level inverse transform' block. This is followed by a 'clip' block, then another '1 level inverse transform' block, another 'clip' block, and finally a third '1 level inverse transform' block. Each block is associated with a specific number: 2801, 2802, 2803, 2804, and 2805 respectively.

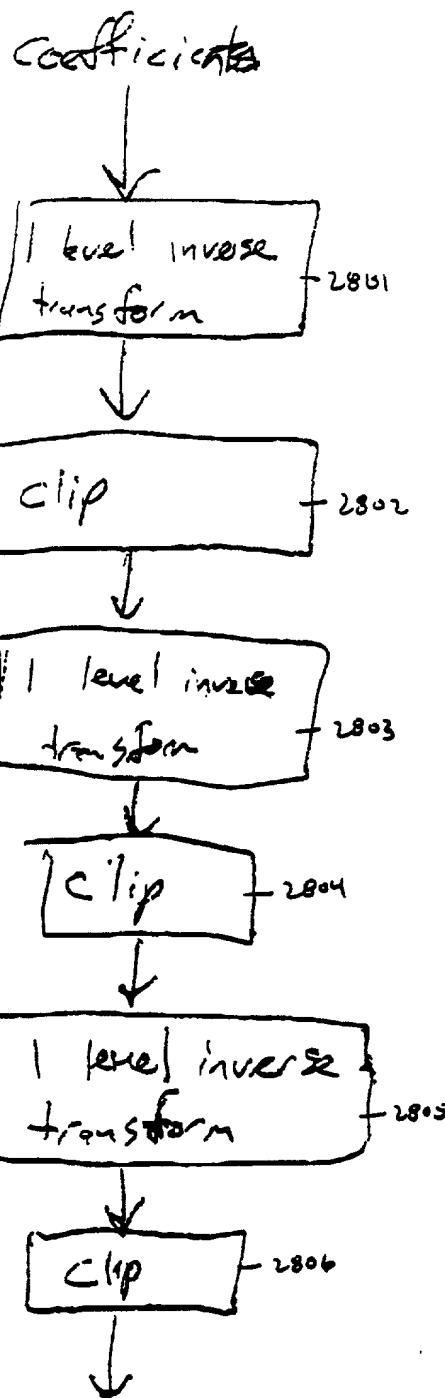


Figure 28